

**Series:** MECF-DV

**Description:** Edge Card Socket, Vertical, Surface Mount, 1.27mm Pitch, 1.6mm Load Card

## Connector Overview

The MECF series is a double row vertical, high-speed mini edge-card socket connector on a 1.27mm pitch and available up to 100 pins polarized. The MECF accepts 1.6mm (0.062") and 2.36mm (0.093") thick cards.

The data in this report is applicable only to MECF connector mates to 1.6mm thick cards.

## Connector System Speed Rating

MECF Series, 1.27mm Pitch, Vertical Surface Mount

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	<b>14.5GHz/ 29Gbps</b>
Differential:	<b>14.5GHz/ 29Gbps</b>

The Speed Rating is based on the -3 dB insertion loss point of the connector system. The -3 dB point can be used to estimate usable system bandwidth in a typical, two-level signaling environment.

To calculate the Speed Rating, the measured -3 dB point is rounded-up to the nearest half-GHz level. The up rounding corrects for a portion of the test board's trace loss, since a short length of trace loss included in the loss data in this report. The resulting loss value is then doubled to determine the approximate maximum data rate in Gigabits per second (Gbps).

For example, a connector with a -3 dB point of 7.8 GHz would have a Speed Rating of 8 GHz/ 16 Gbps. A connector with a -3 dB point of 7.2 GHz would have a Speed Rating of 7.5 GHz/ 15 Gbps.